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AI AND A-LIFE

- (New wave AI)
- (Traditional AI)
- (Neural networks)
- (AI meets music)
- (Intelligent robots)
- (Computers and emotions)
- (Virtual worlds)
- (Evolving machines)
- (Artificial immune system)
- (Modelling real life)
- (Intelligent agents)

ARTIFICIAL INTELLIGENCE AND A-LIFE

WELCOME TO THE UNIVERSE of humanoid robots, intelligent insects and virtual creatures designed to fly real planes...

Researchers in artificial intelligence (AI) and artificial life (A-Life) make their living by modelling, copying or adapting systems from biology. The combination of human ingenuity and the explosion in computer power has created a host of creations that take as their starting point anything from human intelligence and emotions to genetic inheritance and evolution.

"Traditional" AI grew out of efforts to crack enemy codes in the Second World War. It aimed to capture human intelligence by following vast lists of rules programmed into a computer. Today, this approach is best known for creating Deep Blue, the computer that beat the chess world champion Garry Kasparov in 1997.

But this strategy has serious limitations because it seems unlikely to produce anything that really human intelligence. Instead, a new wave of AI is slowly making its mark. It relies to a large extent on complex behaviours from the interaction of simple components. So, for example, networks of artificial neurons can learn and recognise patterns. Already such neural networks are advising financial wizards on their money and helping doctors to diagnose cancer.

A-Life focuses not so much on human biology but on biology in its widest sense. It has already given rise to strange things as robots that work in teams, machines that evolve and virtual creatures that learn to die. Today, biologists study evolution in virtual worlds, computers are protected from malicious viruses by artificial immune systems, and in Oxford, a heart made from millions of software cells is teaching doctors about medicine that no living heart could have done. Prepare to have your mind boggled...

Smart cellphone would spend
 New software agents, running on
 will learn to anticipate your need
 make purchases with your cash
 15/09/2003

Intel to release machine learning
 The collection of Bayesian networks
 let many developers create programs
 dynamically

Robot face smiles and sneers:
 full repertoire of facial expressions
 creators - she could help scientists
 artificial intelligence

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Jun 29, 1997	Dec 12, 1998 *	Jan 28, 1999	Mar 02, 2000	Feb 24, 2001 *	Feb 01, 2002 *	Feb 04, 2002 *	Feb 04, 2002 *
Oct 14, 1997 *		Feb 08, 1999 *	Mar 04, 2000 *	Feb 26, 2001	May 29, 2002 *	Feb 09, 2002 *	Feb 09, 2002 *
Dec 10, 1997		Feb 20, 1999 *	Mar 05, 2000	Mar 01, 2001	May 30, 2002 *	Feb 10, 2002 *	Feb 10, 2002 *
		Feb 21, 1999	May 11, 2000 *	Mar 02, 2001	May 31, 2002 *	Feb 13, 2002 *	Feb 13, 2002 *
		Apr 21, 1999 *	May 20, 2000 *	Mar 08, 2001 *	Jun 02, 2002 *	Feb 13, 2002 *	Feb 13, 2002 *
		Apr 29, 1999	Jun 04, 2000 *	Apr 01, 2001 *	Jun 03, 2002 *	Feb 15, 2002 *	Feb 15, 2002 *
		Oct 01, 1999 *	Jun 11, 2000 *	Apr 02, 2001	Jun 04, 2002 *	Feb 16, 2002 *	Feb 16, 2002 *
		Nov 22, 1999 *	Jun 12, 2000	Apr 17, 2001 *	Jun 06, 2002 *	Mar 30, 2002 *	Mar 30, 2002 *
			Jun 20, 2000 *	Apr 29, 2001 *	Aug 08, 2002 *	Mar 31, 2002 *	Mar 31, 2002 *
			Jul 06, 2000 *	May 03, 2001	Aug 12, 2002 *	Apr 22, 2002 *	Apr 22, 2002 *
			Jul 07, 2000	May 05, 2001 *	Aug 13, 2002	Apr 25, 2002 *	Apr 25, 2002 *
			Aug 15, 2000 *	May 06, 2001	Sep 25, 2002 *	May 25, 2002 *	May 25, 2002 *
			Aug 18, 2000	May 07, 2001	Sep 28, 2002 *	May 31, 2002 *	May 31, 2002 *
			Oct 01, 2000 *	May 15, 2001 *	Sep 28, 2002 *	Jun 01, 2002 *	Jun 01, 2002 *
			Oct 04, 2000 *	May 17, 2001	Sep 30, 2002 *	Jun 02, 2002 *	Jun 02, 2002 *
			Oct 18, 2000 *	Jun 05, 2001 *	Sep 30, 2002 *	Jun 04, 2002 *	Jun 04, 2002 *
			Oct 19, 2000	Jun 10, 2001	Oct 14, 2002 *	Jun 10, 2002 *	Jun 10, 2002 *
			Nov 09, 2000 *	Jun 27, 2001 *	Oct 28, 2002 *	Jun 12, 2002 *	Jun 12, 2002 *
			Dec 05, 2000 *	Jun 30, 2001	Nov 21, 2002 *	Jun 12, 2002 *	Jun 12, 2002 *
			Dec 07, 2000	Jul 10, 2001 *	Nov 22, 2002	Jun 21, 2002 *	Jun 21, 2002 *
				Jul 11, 2001	Nov 22, 2002 *	Jun 22, 2002 *	Jun 22, 2002 *
				Aug 03, 2001 *	Nov 27, 2002 *	Jun 23, 2002 *	Jun 23, 2002 *
				Sep 19, 2001 *	Dec 01, 2002	Jun 24, 2002 *	Jun 24, 2002 *
				Oct 13, 2001 *	Dec 02, 2002		
				Oct 13, 2001 *	Dec 21, 2002 *		
				Oct 15, 2001 *			
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				Oct 20, 2001 *			
				Oct 20, 2001 *			
				Oct 21, 2001 *			
				Oct 21, 2001 *			
				Oct 22, 2001 *			

[Oct 22, 2001](#) *
[Oct 24, 2001](#)
[Oct 25, 2001](#)
[Oct 26, 2001](#) *
[Oct 27, 2001](#)
[Oct 28, 2001](#)
[Oct 30, 2001](#) *
[Oct 31, 2001](#)
[Nov 01, 2001](#)
[Nov 02, 2001](#)
[Nov 04, 2001](#)
[Nov 05, 2001](#)
[Nov 05, 2001](#) *
[Nov 06, 2001](#)
[Nov 07, 2001](#)
[Nov 08, 2001](#)
[Nov 09, 2001](#)
[Nov 09, 2001](#) *
[Nov 10, 2001](#)
[Nov 11, 2001](#)
[Nov 12, 2001](#)
[Nov 13, 2001](#)
[Nov 14, 2001](#)
[Nov 16, 2001](#)
[Nov 17, 2001](#) *
[Nov 19, 2001](#)
[Nov 21, 2001](#)
[Nov 22, 2001](#)
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[Nov 24, 2001](#)
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[Dec 01, 2001](#) *
[Dec 02, 2001](#)
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[Dec 08, 2001](#)
[Dec 09, 2001](#)
[Dec 10, 2001](#)
[Dec 11, 2001](#)
[Dec 12, 2001](#)
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